

The Claims

What is claimed is:

- 5 *Sub A* 1. A process for manufacturing a laminated glazing unit having at least two panes forming a composite with an inside and an outside, a first coated pane being provided on a surface facing the inside of the composite with a corrosion-protected transparent surface coating and at least one adhesive layer for coupling the panes together, the process comprising:
- 10 removing the transparent surface coating proximate at least one edge of the coated pane to expose a region between about 0.1 mm and about 5 mm from a peripheral edge of the pane along a main surface of the pane;
- 15 applying a protective layer proximate the peripheral edge of the coated pane after removal of the transparent surface coating therefrom, the protective layer being substantially impermeable to diffusion of water vapor and covering at least a portion of the exposed region of the coated pane and an external boundary edge of the transparent surface coating;
- 20 coupling the panes together with an adhesive layer disposed therebetween to form the laminated glazing unit.
- 25 2. The process of claim 1, wherein the transparent surface coating is removed along the edge of the coated pane by abrasion.
3. The process of claim 2, wherein the surface coating is removed by abrasion substantially simultaneously with a grinding treatment for grinding the peripheral edge.
- 30 4. The process of claim 1, wherein the protective layer covering the external boundary edge of the transparent surface coating is an organic coating.
- 35 5. The process of claim 1, wherein the protective layer covering the external boundary edge of the transparent surface coating is a bakable ceramic paint.

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6. The process of claim 5, wherein the protective layer covers substantially the entire main surface of the coated pane provided with the transparent surface coating.

5 7. The process of claim 5, wherein the protective layer covering the external boundary edge of the transparent surface coating is in the form of a frame.

10 8. The process of claim 7, wherein the protective layer covering the external boundary edge of the transparent surface coating is opaque and decorative.

10 9. The process of claim 5, further comprising baking the ceramic paint, wherein at least one of the panes including the coated pane is formed of glass.

15 10. The process of claim 1, wherein at least one of the panes comprises curved glass formed by bending, the curved glass being provided with the transparent surface coating prior to bending.

20 11. A laminated glazing unit comprising at least two panes coupled together by an adhesive layer disposed therebetween to form a composite with an inside and an outside, a first coated pane provided on a surface facing the inside of the composite with a transparent surface coating, the transparent surface coating being removed proximate at least one edge of the coated pane in a region between about 0.1 mm and about 5 mm from a peripheral edge of the pane along a main surface of the pane, and a transition region extending between coated and uncoated regions of the main surface of the pane being 25 covered with a protective layer impermeable to diffusion of water vapor.

2. The laminated glazing unit of claim 11, wherein the protective layer is disposed at an angle of between about 180° and about 190° in the transition region extending between coated and uncoated regions of the main surface.

30 13. The laminated glazing unit of claim 11, wherein the protective layer is a bakable paint.

35 14. The laminated glazing unit of claim 13, wherein the bakable paint is electrically conducting.

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15. The laminated glazing unit of claim 11, wherein the transparent surface coating comprises at least one of silver and an antireflection dielectric.

16. The laminated glazing unit of claim 11, wherein the transparent
5 surface coating comprises a silver layer abutting an antireflection dielectric layer.

17. The laminated glazing unit of claim 11, wherein the adhesive layer comprises a synthetic thermoplastic.

10 18. A process for manufacturing a laminated glazing unit having at least two panes forming a composite with an inside and an outside, the process comprising:

applying a transparent surface coating to a first pane along substantially an entire main surface facing the inside of the composite;

15 removing the transparent surface coating proximate at least one peripheral edge of the first pane to expose the main surface of the pane;

applying a protective coating proximate the peripheral edge of the first pane after removal of the transparent surface coating therefrom, the protective coating being substantially impermeable to diffusion of water vapor and covering at least a portion of the exposed main surface of the first pane and a boundary edge of the transparent surface

20 coating;

bonding the panes together to form the laminated glazing unit.

19. The process of claim 18, wherein the panes are adhesively bonded together under at least one of heat and pressure.

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20. The process of claim 18, further comprising bending at least one pane.

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